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(71) Applicant: **MOTOROLA INC.**
1303 East Algonquin Road
Schaumburg Illinois 60196(US)

(72) Inventor: **Baird, John**
6427 E Gold Dust Avenue
Scottsdale, Arizona 85253(US)

(74) Representative: **Ibbotson, Harold et al**
MOTOROLA European Intellectual Property
Operations Jays Close Viables Ind. Estate
Basingstoke Hants RG22 4PD(GB)

(54) **Isothermal injection molding process.**

(57) An isothermal injection molding process includes providing an injection molding apparatus (10) having at least one molding cavity and heating the cavity to a temperature greater than the heat deflection temperature of the molding material (32) to be employed. Molten molding material (32) is then injected into the mold cavity and once injected, cooled to a temperature less than or equal to the heat deflection temperature of the molding materials (32) so that the molded parts may be removed from the apparatus (10).

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EUROPEAN SEARCH REPORT

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EP 90 12 4103

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	DE-A-2 331 426 (FANINI S.I.M.)	1-4, 6, 8	B29C45/73
Y	* the whole document *	5, 9, 10	B29C45/14
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X	EP-A-0 335 388 (MÜLLER)	1, 3, 4, 6, 8	
Y	* the whole document *	9, 10	

X	US-A-4 172 872 (NAGAI)	1, 3, 4, 6, 8	
Y	* column 3, line 3 - line 17; figure 3 *	9, 10	

X	US-A-2 535 436 (MAYNARD)	1, 3, 4, 6, 8	
Y	* column 3, line 73 - column 6, line 13; figures 1-5 *	9, 10	

X	EP-A-0 202 372 (SUPRAPHON)	1, 3, 4, 6, 8	
Y	* the whole document *	9, 10	

X	DE-A-1 938 496 (WINTERGERST)	1, 4, 6, 8	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
Y	* the whole document *	9, 10	

Y	PATENT ABSTRACTS OF JAPAN vol. 11, no. 113 (E-497)(2560) 9 April 1987 & JP-A-61 262 051 (MITSUBISHI ELECTRIC CORP.) * abstract *	5, 9, 10	B29C

Y	PATENT ABSTRACTS OF JAPAN vol. 7, no. 140 (E-182)(1285) 18 June 1983 & JP-A-58 052 831 (NIPPON SEIKOSHO) * abstract *	9, 10	

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 NOVEMBER 1991	Examiner BOLLEN J. A. G.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document			